DOCUMENT RESUME

ED 166 483 CE 019 910

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TITLE [MATCHE: Management Approach to Teaching Consumer and Homemaking Education.] Consumer Approach Strand: Housing. Module I-B-6: Maintenance Procedures for Surfaces and Appliances.
INSTITUTION California Polytechnic State Univ., San Luis Obispo. Dept. of Home Economics.; California State Univ., Fresno. Dept. of Home Economics.
SPONS AGENCY California State Dept. of Education, Sacramento. Bureau of Homemaking Education.; Office of Education (DHEW), Washington, D.C.
PUB DATE 78
NOTE 18p.; For related documents see CE 019 896-967 ; Back cover contains small print

EDRS PRICE MF-$0.83 HC-$1.67 Plus Postage.
DESCRIPTORS Answer Keys; Appliance Repairing; *Consumer Science; Educational Objectives; *Home Economics Education; *Maintenance; *Performance Based Teacher Education; Performance Tests; Preservice Education; Resource Materials
IDENTIFIERS Interior Surfaces

ABSTRACT

This competency-based preservice home economics teacher education module on maintenance procedures for surfaces and appliances is the sixth in a set of six modules on consumer education related to housing. (This set is part of a larger set of sixty-seven modules on the Management Approach to Teaching Consumer and Homemaking Education [MATCHE]--see CE 019 901-967.) Following the module objective and overview, two units of instruction are presented: (1) care and maintenance of interior background surfaces (includes one lesson) and (2) care and maintenance of major installed appliances (includes one lesson on use, care, and life cycle costs of major appliances). Each lesson includes a narrative summary, suggested activities, suggested resources, and a progress test or check. A module pre/posttest (with answer key) concludes the document. (Workshop proceedings relating to the development of these modules are available in the ERIC system as CE 019 896-899; also available is a module on utilizing FHA-HERO as an instructional strategy to expand and strengthen the home economics instructional programs [CE 019 900].) (JH)

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CONSUMER APPROACH STRAND:

HOUSING

MODULE I-B-6 MAINTENANCE PROCEDURES FOR SURFACES AND APPLIANCES

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1978

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MATCHE PROJECT Funded by:
Bureau of Homemaking Education
Vocational Education
California State Department of Education
Sacramento

CE 019 910

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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MATCHE

Management Approach to Teaching Consumer and Homemaking Education

MATCHE is an individualized, competency-based preservice curriculum designed for home economics education students at the preprofessional, upper division level. MATCHE is a comprehensive curriculum based on selected objectives which give emphases in three areas: 1) consumer approach to homemaking education, 2) teaching home economics in economically depressed areas, and 3) establishing occupational programs related to home economics. The material for each subject matter area of home economics has been organized into these three strands, and includes an FHA-HERO emphasis. These subject matter areas are home economics education core, housing, foods and nutrition, textiles and clothing, human development, and management.

The MATCHE modules were written by subject matter specialists from various colleges and universities offering home economics and therefore each is unique in the approach used for the development of the objectives. The modules allow for differences in level of achievement, rate of learning, and learning goals. They may be used independently, combined into a sequential series, or as a random set of conceptual units. Any instructor using the material can easily adapt the material to a specific group of students, the locale, method of instruction, and available facilities. Learning may be facilitated by offering one module in conjunction with others.

As MATCHE is continuously up-dated by those using the curriculum, some concepts and objectives may be added and others deleted. The purpose is to continually strengthen the program for pre and inservice home economics teachers.

Guidelines for Use and Continuous Development of MATCHE are on file with Home Economics units in each of the fifty state departments of education plus all of the Home Economics Departments in California institutions offering home economics education. This booklet and proceedings from the four MATCHE workshops give background information concerning the purpose and development of the MATCHE project.

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The project was developed under a contract with the Bureau of Homemaking Education, California State Department of Education under the provisions of PL 90-576 and PL 94-482. However, the opinions expressed herein do not necessarily reflect the position or policy of the Bureau of Homemaking Education or the U. S. Office of Education, and no official endorsement should be inferred.

MATCHE PROJECT

1974-1978

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MAINTENANCE PROCEDURES FOR SURFACES AND APPLIANCES

Module Objective

Given examples of representative interior surface materials and appliances, the MATCHE student will be able to demonstrate to a group of peers how at least eight of the ten examples could be maintained in a way to effectively increase the length of service, specifying the conditions under which each will be used or maintained. The student will also be able to state how proper care and maintenance can decrease expenditures for early replacements.

Module Overview

Proper maintenance of surface materials and appliances will not only enhance their appearance and increase the length of service, but also extend the family income. Each requires its own form of maintenance and care. A clear understanding of a particular item's service policy or required maintenance can aid in extending its life expectancy. It is the purpose of this module to acquaint you with acceptable methods of household maintenance. This module has been divided into the following units:

Unit 1: Care and Maintenance of Interior Background Surfaces

Unit 2: Care and Maintenance of Major Installed Appliances

UNIT 1

CARE AND MAINTENANCE OF INTERIOR BACKGROUND SURFACES

Objectives

The MATCHE student will be able to describe the care and maintenance techniques that will extend the useful life of interior surfaces, concentrating on materials such as paint, wallcoverings, and paneling.

The MATCHE student will be able to describe the care and maintenance techniques that will extend the useful life of interior floor surfaces, concentrating on such materials as wood, vinyl, and other floor coverings.

The MATCHE student will be able to describe the care and maintenance techniques that will extend the useful life of such interior surfaces as windows, doors, fireplaces, and countertops, concentrating on such materials as brick, tile, plastic liminates, glass, and other common materials.

Overview

This unit will introduce you to the familiarize you with the various care and maintenance techniques that will extend the useful life of such interior surfaces as walls, floors, fireplaces, windows, doors, and countertops, and the materials used in these surfaces. Resource material, use and care booklets and general housekeeping sources will be explored.

Lesson: Care and Maintenance of Interior Background Surfaces

Narrative Summary

Major manufacturers of household materials spend a large portion of their promotional budget on use and care brochures. The consumer can benefit from this information but must also seek unbiased resources comparing similar products by a number of manufacturers. Pseudo-professional literature may often be misleading and may result in false expectations. A preliminary step in your search of use and care of materials is to consult your department files for sources on interior design materials. Most home economics departments will have a good supply of pamphlets on product analysis, use and care.

The narrative, activities, and resources in this unit are designed to inform you of potential care and maintenance suggestions for a wide variety of background sources found in today's home.

All activities should be submitted to and discussed with your instructor.

Suggested Activities

1. Consult your home economics files, design showroom directories (commodities section), Interior Decorators Resource Handbook and the resources directories in major design periodicals. Use letter or legal size folders to develop a resource file. Write for product use and care information listed under the following:

Wallcoverings:	paint
	wallpapers, vinyls, mylars, foils, fabrics
	paneling
Floorcoverings:	wood
	concrete and exposed aggregate
	masonry - brick, adobe
	slate, marble and terrazzo
	sheet vinyl
	semi-resilient tiles - vinyl asbestos, asphalt
	ceramic tile - glazed, unglazed
Countertops:	tile, laminates, corian
Glass	
Plastics and synthetic countertops	

   You will find many of the professional design magazines have reader's resource cards with numerous product information pamphlets available free or at a very nominal fee. Check with your instructor who may wish to coordinate letter writing.

2. The two sources listed below are two of the five major resources on the professional membership exam for the American Society of Interior Designer. These sources each include excellent resource information on interior materials, their characteristics, use and care. Read and outline the following:
   a. Arnold Friedman, Interior Design
      Part Five: 2 "Interior Materials"
      Part Six: 2 "Building Materials"

   b. Ray and Sarah Faulkner, Inside Today's Home
      Part III: 10 "Wood and Masonry"
      Part III: 11 "Ceramics, Glass, Metal and Plastics"
      Part III: 12 "Fabrics"
      Part III: 14 "Windows, Window Treatments, Doors"
      Part III: 15 "Floors, Floor Coverings and Ceilings"

3. Abstract and research three products in current professional journals or consumer periodicals. Use 5"x8" cards. Cite topic and bibliographical entry.

4. After you have completed your library reading and received requested information research, select a representative list of five major suppliers, distributors or manufacturers from the topic list in Activity 1. Check with your instructor to avoid duplication. If it is possible in your community, visit a manufacturer, distributor, and user for each of your products.

   Your interview might include the following headings:

   a. characteristics
   b. durability
   c. recommended care and maintenance
   d. strengths and limitations
   e. special equipment needed
   f. cost of product installation
   g. life expectancy

Suggested Resources

American Home Economics Association. Textile Handbook. 4th ed. Washington, D.C.: American Home Economics Association, 1970. (See Appendix for manufacturers or sources.)

Baker, Glenn E., and Doyle L. Yeager. Wood Technology. Indianapolis, Indiana: Howard Sams and Co., 1974.

Faulkner, Ray, and Sarah Faulkner. Inside Today's Home. 4th ed. New York: Holt, Rinehart and Winston, 1975.

Friedman, Arnold, John F. Pile, Forest Wilson. Inside Design. New York: American Elsevier, 1973.

Kinney. The Professional's Guide to Wallcoverings. Oakland: Kinney Brothers of California.

Ludwig, Amber C. The Bissell Guide to Housekeeping for Young Homemakers. New York: Bantam Books, 1967.

Sinclair Paints. Painting Specifications and Product Descriptions. Los Angeles: Insilco.

Periodicals and Associations

AHAM Merchandising Week	Armstrong Cork
American Dyestuff Reporter	Bruce Hardwood Floors
American Fabrics	Dupont
Carpet & Rug Institute	Dutch Boy
Consumer Bulletin	GAF
Consumer Reports	Georgia Pacific
Designers West	Kelley Moore
Forecast for Home Economics	Kentile
Home Furnishing Daily	Libby Owens Ford
Interior Design	Sinclair
Interiors	U.S. Plywood
Journal of Home Economics	Weyerhauser

Journal of the Textile Institute
Progressive Architecture
Textile Research Journal
Textile World
The Designer
Wallcoverings Magazine
What's New in Home Economics

Federal Trade Commission
U.S. Dept. of Agriculture

Progress Test

Serve as a part of a panel presentation on one of your in-depth research products. Provide each class member with a concise specific outline, complete with bibliography.

UNIT 2

CARE AND MAINTENANCE OF MAJOR INSTALLED APPLIANCES

Objective

The MATCHE student will be able to describe the care and maintenance techniques used to extend the useful life of major appliances and will indicate the possible long range savings.

Overview

This unit will present the care and maintenance techniques used to extend the useful life of household appliances in order to achieve maximum service and satisfaction for the dollar expended.

Lesson: Major Appliances: Use, Care and Life-Cycle Costs

Narrative Summary

A consumer approach to the study of household equipment includes options available for purchase, installation, and use and care. The focus of this unit will be to stress the importance of being a well-informed consumer. The concept of total life-cycle costs of use, maintenance and repair will be explored. For many years we have encouraged consumers to look for the safe, functional, and well-designed household equipment, reasonably priced and fully guaranteed. "More recently the principle of life-cycle costing, which includes the costs of maintenance, repair, services, electric operating energy and even disposal, has embraced the housing and equipment fields"(Wilson: 1). The initial purchase cost of an appliance may be only a small portion of the total package encompassing repairs and operating expenses. Portable appliances will not be included within the scope of this unit. Major appliances will be considered as those appliances purchased with the home. (The washer, dryer, and refrigerator will also be included.)

All activities should be submitted to and discussed with your instructor.

Suggested Activities

1. To buy and care for major appliances intelligently, the consumer needs current product information available from professional associations as well as an informative use and care booklet.

Secure from the instructor a current list of sources of appliance information and buying guide references. Study these resources and write for information pertaining to household equipment.

2. Visit at least two appliance stores and note all sources of consumer product information, i.e., hang tags, use and care manuals, salespersons of varying degrees of expertise.

3. Read the use and care portions of three of the sources listed in the suggested resources list. While using the ideas and table of contents, you will no doubt find additional new information needed to complete your body of knowledge in the field of household equipment. You may elect to keep your information on 5"x8" cards with notation of source and date.

4. Upon completion of your exploratory research you are now ready to do some field comparing and practical testing.
   a. Use Appliance Comparison Sheet from Wilson's Household Equipment: Resource Manual, p. 87, or a similar type chart. (It is recommended that each member of the class pursuing this module should select a separate appliance.)
   b. Select five major appliances in your home economics department or home. Read the use and care booklet and complete the following care procedures.
      1. reset the garbage disposal
      2. clean the drain of the frostfree refrigerator
      3. change light bulb in the oven or refrigerator
      4. clean the lint trap in the dryer
      5. adjust and reset automatic ice maker
      6. check the cords on appliances for cracks or frayed wires
      7. clean hood screen and fans
      8. clean soap tray in dishwasher
      9. hints to look for if dishwasher or washer do not empty
      10. procedures for odor control in a trash compactor
      11. locate the panel box
      12. change air conditioning filters

5. Read and abstract two recent articles on each of the following topics. Look for information on the ecological impact, noise pollution, energy utilization, and space consumption of each item.
   a. trash compactor
   b. microwave oven
   c. self-cleaning oven

Suggested Resources

Association of Home Appliance Manufacturers. 20 North Wacker Drive, Chicago, Illinois 60606.

Ehrenkranz, Florence, and Lydia L. Inman. Equipment in the Home. New York: Harper and Row, 1973.

Klamkin, Charles. How to Buy Major Appliances. Chicago: Henry Regnery Company, 1973.

Peet, Louise Jenison, and Mary S. Pickett. Young Homemaker's Equipment Guide. 4th ed. Ames: Iowa State University Press, 1974.

Peet, Louise Jenison, Mary S. Pickett, Mildred Arnold, and Ilse H. Wolf. Household Equipment. 7th ed. New York: John Wiley and Sons, Inc., 1975.

State of Florida, Department of Education. Home Furnishings, Equipment and Services. Tallahassee, Florida: Florida Dept. of Education.

Van Zante, Helen. The Microwave Oven. Boston: Houghton Mifflin, 1973.

Wilson, Patricia. Consumer Guide to Used and Surplus Home Appliances and Furnishings. Boston: Houghton Mifflin, 1973.

Wilson, Patricia. Household Equipment: Selection and Management. Boston: Houghton Mifflin, 1976.

Wilson, Patricia. Household Equipment: Resource Manual. Boston: Houghton Mifflin, 1976.

Progress Check

As a small group activity, discuss your Appliance Comparison Sheet.

There is no progress test for this module. When you have completed the activities and reviewed your information, proceed to the posttest.

MODULE PRE/POSTTEST

Student_____

Maintenance Procedures For Surfaces and Appliances

Instructor_____

Date_____

Student: This pre/posttest will assess your knowledge of the information presented in this module. You need study only those units that are prescribed on the basis of pretest results.

1. List four major professional journals or periodicals which could provide authoritative information on the following products: floorcoverings, window treatments, wallcoverings.

   a.

   b.

   c.

   d.

2. List three major types and brand names for counter tops.

   a.

   c.

   d.

3. What are the characteristics, strengths, and limitations of each of the following:

   a. wool carpet

   b. glazed ceramic entry tile

   c. woven wood shades

   d. Mylar wallcovering

4. Define the following:

   a. warranty

   b. guarantee

5. Name and state the function of four major organizations for household equipment.

   a.

   b.

   c.

   d.

6. What are the major sources of product information for use and care of a gas range?

7. What are the environmental and spatial implications of increased gadgetry in the kitchen?

ANSWER KEY
MODULE PRE/POSTTEST

Maintenance Procedures For Surfaces and Appliances

Instructor:	Do not reproduce this page in students' booklets. You must retain it for grading and prescriptive purposes. Answers will vary with individuals. A preferred response might be similar to the answer presented.

1. a. Home Furnishings Daily
   b. Textile World
   c. Journal of Textiles
   d. Progressive Architecture
   e. Consumer Reports
   f. Consumer Bulletin
   g. Interior Design
   h. Interiors
   i. Wallcovering Magazine
   j. The Designer
   k. Designers West

2. laminates - Formica, Wilson Art, Park Wood, Textolite, Micarta
   tile - glazed ceramic, many manufacturers; quarry tile; terra-stone cultured marble

3. a. resilient, resistant to soil, durable, dyes well, stains with acid based stains, absorbs odors, contact allergies, high cost, moth and carpet bettle attach
   b. variety of styles, colors, patterns, easy maintenance, long-lasting, noisy, chips, slippery when wet, glaze wears away
   c. texture, sound absorption, variety
      warp, absorb odors, relax with moisture, expensive
   d. reflective, illusion of spaciousness, decorative,
      shows all wall flaws, may require blank stock, expensive
      hard to hang

4. a. a representation of quality expressed or implied
   b. promise to answer for payment of a debtor obligation

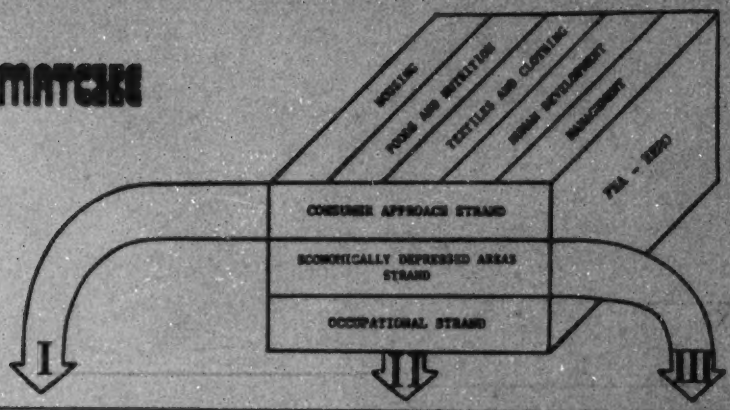
5. Organizations such as:
   a. American Gas Association--the AGA coordinates industry publicity, research, advertising, and product development
   b. American Home Economics Association--the association's research reports are valuable resources
   c. American National Standards Institute--ANSI helps various organizations to cooperate and to establish nationally accepted standards
   d. Association of Home Appliance Manufacturers--AHAM serves its member firms as a statistician, industrial relations consultant, and industry liaison with governmental regulatory agencies. AHAM is a good educational resource. It produces many educational materials, film strips, and teaching aids.

e. Consumer Product Safety Commission--the agency has general responsibility for the safety of many consumer products except for food, drugs, cosmetics, automobiles, and certain toxic substances that come under the authority of other existing federal agencies
f. Consumers Union--many products are tested and evaluated each year, including household appliances and related supplies
g. Major Appliance Consumer Action Panel--MACAP primarily acts as an ombudsman for consumers, handling complaints that cannot be satisfactorily resolved through conventional channels
h. National Bureau of Standards--the bureau provides technical assistance in commodity measurement and performance standards; develops federal product safety standards where required by law; and disseminates technical, scientific, and engineering information to federal agencies and to the public

6. Use and care booklet; warranty; American Gas Association Seal; Underwriters Laboratory Seal; hang tag; brochures; sales personnel. Consult professional literature for comparative data.

7. Increased noise pollution; possible radiation leak; trash packed in plastic takes years to break down; decreased lower storage with dishwasher, garbage disposer, and trash compactor.

MATCHEC



A.	CORE: CONSUMER APPROACH TO HOMEMAKING EDUCATION 1 Life Styles and the Consumer 2 Community Consumer Resources 3 Consumer Rights and Responsibilities 4 Incorporating the Consumer Approach in Homemaking Classes	CORE: ESTABLISHING OCCUPATIONAL PROGRAMS 1 Analyzing Job Market Opportunities 2 Developing Occupational Programs 3 Implementing Occupational Programs 4 Evaluating Occupational Programs	CORE: TEACHING HOME ECONOMICS IN ECONOMICALLY DEPRESSED AREAS 1 Characteristics of Economically Depressed Areas 2 Life Style Characteristics of Economically Depressed Areas 3 Community Resources for Economically Depressed Areas 4 Developing and Implementing Programs for Economically Depressed Areas
	AREA (Module) PACKAGES	AREA (Module) PACKAGES	AREA (Module) PACKAGES
B.	HOUSING 1 Consumer Use of the Community 2 Procedures for Selecting a Community 3 Procedures for Selecting Housing 4 Shopping for a Home Loan 5 Procedures for Selecting Furnishings 6 Maintenance Procedures for Surfaces, Furniture, and Appliances	HOUSING 1 Occupational Opportunities Related to Housing and Interiors 2 Required Skills for Retail Sales of Furnishings and Related Household Items	HOUSING 1 Low Income Housing 2 Government Housing Programs 3 Low Income Furnishings
C.	FOODS AND NUTRITION 1 Technological, Sociological, Ecological, and Environmental Factors Related to Food 2 Regulatory Agencies Responsible for Wholesomeness and Quality of Foods 3 Consumer Aspects in Planning Meals 4 Cultural Food Patterns 5 Influences on Food Prices	FOODS AND NUTRITION 1 Occupational Opportunities Related Foods and Nutrition 2 Operations and Activities of a Food Service Operation 3 Managing a Food Service Operation	FOODS AND NUTRITION 1 Food Availability in Economically Depressed Areas 2 Low Income Food Patterns 3 Meal Management on a Low Income
D.	TEXTILES AND CLOTHING 1 Consumer Approach to Textiles and Clothing 2 Sociological, Psychological, and Economic Factors Affecting Clothing Selection 3 Clothing Needs of Individuals 4 Applications and Implications of New Technology in Textiles and Clothing	TEXTILES AND CLOTHING 1 Occupational Opportunities Related Textiles and Clothing 2 Assembly Line Garment Construction 3 Merchandising Textiles and Ready-To-Wear	TEXTILES AND CLOTHING 1 Clothing the Individual and Family 2 Utilizing Resources for Clothing and Textiles
E.	HUMAN DEVELOPMENT 1 Societal Changes Affecting the Family 2 The Relationship Between Spending Patterns and Interpersonal Relationships 3 Financial Pressures in Various Life Styles and Cycles 4 Individuals and Families in Crisis 5 Consumer Aspects of Parenthood	HUMAN DEVELOPMENT 1 Occupational Opportunities Related to Human Development 2 Children's Center Aide 3 Developing Programs for Preschool Children 4 Convalescent Home Aide	HUMAN DEVELOPMENT 1 Characteristics of Economically Depressed Area Families 2 The Child and the Economically Depressed Area Family 3 Resources for the Economically Depressed Area Family
F.	MANAGEMENT 1 Relationship Between National and Consumer Economics 2 Consumer Legislative Issues 3 Environmental Issues and the Consumer 4 Financial Management 5 Family and Individual Credit Management 6 Management View of the Multiple Role 7 The Metric System	MANAGEMENT 1 Occupational Opportunities Related to Home Management and Supporting Services 2 Occupational Preparation for Jobs Utilizing Housekeeping Skills	MANAGEMENT 1 Management Skills 2 Money Management 3 Marketing Practices in Relation to Low Income Clientele